Mehmood Ali

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WORK EXPERIENCE

Intern Full-Stack Developer

Filter Tutor [8 Nov 2023 – 9 Apr 2024]

City: Karachi | **Country:** Pakistan

1. **Frontend**: Developing responsive user interfaces with React.js.
2. **Backend**: Creating robust server-side logic with Node.js and Express, implementing RESTful APIs.
3. **Database**: Designing and optimizing PostgreSQL databases for efficient data storage and retrieval.
4. **Security**: Implementing best practices for input validation and authentication, conducting regular security audits.
5. **Version Control and Deployment**: Using Git for version control.
6. **Documentation**: Maintaining comprehensive documentation for codebase, APIs, and technical processes.
7. **Deployment:** Deployed the applications using Heroku and AWS services.

Tech Stack: Node.js, JavaScript, React, Git, HTML, CSS, PostgreSQL.

Tutor of Lernprojekt (LSL2)

HAW Hamburg [9 Oct 2023 – 14 Oct 2023]

City: Hamburg | **Country:** Germany

1. Organizing the Lernprojekt for Winter Semester 2023/24 for more than 100 students.
2. Developing the task using LEGO Spike Bot.
3. Managing the Lernprojekt.
4. Analyzing the progress of the students.

DIGITAL SKILLS

Full-Stack Development Tools and Skills

Javascript ES6 / React.js / Node.js / Express.js / mySQL / PostgreSQL / Platform : AWS Cloud / Deployment on HEROKU / Bash Command Line / Git, GitHub and Version Control / CSS 3 / HTML 5 / EJS / REST / APIs / Python (Spyder/Jupyter Notebook IDE)

Other Tools and Skills

Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access / FreeRTOS / Linux (Terminal Commands, Bash/Shell) / C(Embedded / Application) / Godot Script Language / JAVA (OOP) / Matlab/Simulik / Team Work / Communication

PROJECTS

[7 Oct 2024 – Current]

Sustainable Fishing Game using Godot Gaming Engine This project is currently ongoing with my colleagues as an Elective Project (CJ2). The game aims to deliver the message of sustainability with regards to over-fishing and plastic pollution that ruins our beautiful oceans.

Tech Stack: Godot Gaming Engine, Git, Godot Script.

[7 Oct 2024 – Current]

Neural Networks and Data Sciences This project is currently ongoing as an Elective Subject at my university. I am currently using Python to access Large Language Models (LLMs). In coming weeks, I will have to build one using Python and Tensor Flow.

Tech Stack: Python, Tensor Flow, Jupyter, Pandas.

[1 Aug 2024 – 31 Oct 2024]

An Android Application for HAW Hamburg that acts as an OCR/Scanner This project was done alongside my colleagues as a mandatory project (CJ1). The application uses the phone's camera to Scan a document and utilizes the OCR capabilities to read and store the data about Dual-Studium students.

Tech Stack: Node.js, React, SQLite, Android Studio.

ReactJS and JavaScript Apps
1. **A Keeper App** (like Google Keep Notes) made using ReactJS. User can add or delete a note. Live Preview and GitHub Repo.
2. **A To-Do List** made using ReactJS. User can add a to do task and click on the task to delete it. Live Preview and GitHub Repo.
3. **Simon Game** that randomly choses a color pattern for the player to choose on screen, and increases the length of the pattern with the increasing level. Made using JavaScript + HTML + CSS. Live Preview and GitHub Repo.
4. **A Drum Kit** that detects keypress from the Keyboard or a button pressed on the website to play the respective sound. This includes JavaScript, CSS, HTML. Live Preview and GitHub Repo.
5. **Dicee Game** that generates random dice numbers for 2 players and displays the result. Live Preview and GitHub Repo.

Tech Stack: Node.js, React, Git, HTML, CSS, Express.

EDUCATION AND TRAINING

B.Sc Information Engineering
HAW Hamburg [1 Sep 2021 – Current]

Address: Stiftstraße 69, 20999 Hamburg (Germany)

CERTIFICATIONS AND COURSES

The Complete 2024 Web Development Bootcamp - Udemy

A Full-Stack Web Development course that includes HTML5, CSS3, Javascript, Node, React, PostgreSQL, Web3 and DApps.

Software Engineering - HAW Hamburg

Requirement Analysis, Modeling Use Cases, Design Patterns, UML Modelling, Testing, RESTful Services.

Object Oriented Programming JAVA - HAW Hamburg

Classes, Objects, Inheritance, Libraries, Abstract Elements, Exception Handling, GUI, Object-Oriented Design.

C (Embedded / Application) - HAW Hamburg

Data Types, Functions, Arrays, Pointers, Structures, Dynamic memory handling, • file I/O, Using C for Embedded Systems

Databases - HAW Hamburg

Relational Databases, Database Design, SQL, mySQL, JDBC.

Algorithms and Data Structures - HAW Hamburg

Stacks and Queues, Sorting Algorithms, Binary Search Trees, Priority Queues, Hashing, Data Compression.

LANGUAGE SKILLS

Mother tongue(s): Sindhi │ Urdu

Other language(s):

English	German
LISTENING C2 READING C1 WRITING C1	LISTENING B1 READING B1 WRITING B1
SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1	SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user